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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Khabashesku, et al.

Serial No.: 10/714,187

Filing Date: November 14, 2003

Art Unit: 1754

Title: *Sidewall Functionalization of Single-Wall Carbon Nanotubes
Through C-N Bond Forming Substitutions of Fluoronanotubes*Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

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Applicant hereby submits the following references in accordance with 37 C.F.R. §§ 1.56, 1.97 and 1.98. Copies of the references cited in the attached PTO/SB/08A and PTO/SB/08B are enclosed. Furthermore, pursuant to 37 C.F.R. § 1.97(g) and (h), no representation is made that this is material to patentability of the present application or that a search has been made.


Applicant hereby submits that claims of Applicant's referenced patent application are patentably distinguishable from these references.

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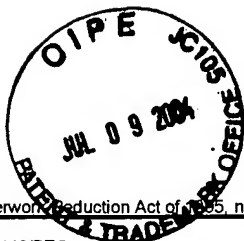
Respectfully submitted,



Ross Spencer Garsson
Registration No. 38,150

WINSTEAD SECHREST & MINICK P.C.
P.O. Box 50784
Dallas, Texas 75201-0784
Phone: (512) 370-2870
Fax: (512) 370-2851

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PTO/SB/08B (04-03)

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Application Number	10/714,187
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First Named Inventor	Khabashesku, et al.
Art Unit	1754
Examiner Name	Unknown
Attorney Docket Number	11321-P058US

Sheet	1	of	5
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NON PATENT LITERATURE DOCUMENTS

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		Ijima, et al., "Single-shell carbon nanotubes of 1-nm diameter", 363 Nature (1993), pp. 603-605	
		Wong, et al., "Carbon Nanotube Tips: High-Resolution Probes for Imaging Biological Systems", 120 J. Am. Chem. Soc. (1998), pp. 603-604	
		Yu, et al., "Tensile Loading of Ropes of Single Wall Carbon Nanotubes and Their Mechanical Properties", 84 Phys. Rev. Lett. (2000), pp. 5552-5555	
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		Rao, et al., "Nanotubes", 2 Chem Phys. Chem. (2001), pp. 78-105	
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		Calvert, "A Recipe for Strength", 399 Nature (1999), pp. 210-211	
		Gong, et al., "Surfactant-Assisted Processing of Carbon Nanotube/Polymer Composites", 12 Chem. Mater. (2000), pp. 1049-1052	

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		Yudasaka, et al., "Effect of an organic polymer in purification and cutting of single-wall carbon nanotubes", 71 Appl. Phys. A (2000), pp. 449-451	
		Vigolo, et al., "Macroscopic Fibers and Ribbons of Oriented Carbon Nanotubes ", 290 Science (2000), pp. 1331-1334	
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		Chen, et al., "Noncovalent Sidewall Functionalization of Single-Walled Carbon Nanotubes for Protein Immobilization", 123 J. Am. Chem. Soc. (2001), pp. 3838-3839	
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		Tang, et al., "Preparation, Alignment, and Optical Properties of Soluble Poly (phenylacetylene)-Wrapped Carbon Nanotubes", 32 Macromolecules (1999). pp. 2569-2576	
		Bahr, et al., "Covalent chemistry of single-wall carbon nanotubes", 12 J. Mater. Chem. (2002), pp. 1952-1958	

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		Khabashesku, et al., "Fluorination of Single-Wall Carbon Nanotubes and Subsequent Derivatization Reactions", 35 Acc. Chem. Res. (2002), pp. 1087-1095	
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		Mickelson, et al. "Solvation of Fluorinated Single-Wall Carbon Nanotubes in Alcohol Solvents", 103 J. Phys. Chem. B (1999), pp. 4318-4322	
		Boul, et al., "Reversible sidewall functionalization of buckytubes", 310 Chem. Phys. Lett. (1999), pp. 367-372	
		Pekker, et al., "Hydrogenation of Carbon Nanotubes and Graphite in Liquid Ammonia", 105 J. Phys. Chem. B (2001), pp. 7938-7943	

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		Bahr, et al., "Highly Functionalized Carbon Nanotubes Using in Situ Generated Diazonium Compounds", 13 Chem. Mater. (2001), pp. 3823-3824	
		Holzinger, et al., "Sidewall Functionalization of Carbon Nanotubes", 40 Angew. Chem. Int. Ed. (2001), pp. 4002-4005	
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		Bettinger, et al., "Thermochemistry of Fluorinated Single Wall Carbon Nanotubes ", 123 J. Am. Chem. Soc. (2001), pp. 12849-12856	
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		Gu, et al., "Cutting Single-Wall Carbon Nanotubes Through Fluorination" , 2 Nano. Lett. (2002), pp. 1009-1013	

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		Nikolaev, et al, "Gas-phase catalytic growth of single-walled carbon nanotubes from carbon monoxide", 313 Chem. Phys. Lett. (1999), pp. 91-97	
		Moore, "Amino Acid Analysis: Aqueous Dimethyl Sulfoxide As Solvent for the Ninhydrin Reaction", J. Biol. Chem.(1968), pg. 6281	
		Lin-Vien, et al., "The Handbook of Infrared and Raman Characteristic Frequencies..", Academic Press Inc. (1999), pg. 299	
		Khabashesku, et al., "Polymerization of Single-Wall Carbon Nanotubes under High Pressures and High Temperatures", 106 J. Phys. Chem. B (2002), pp. 11155-11162	

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